

-----Original Message-----

From: Gardiner, William W CIV USARMY CENWS (US) <William.W.Gardiner@usace.army.mil>

Sent: Thursday, May 03, 2018 12:34 PM

To: Sanga, Ravi <Sanga.Ravi@epa.gov>

Cc: Patten, Kayla M CIV USARMY CENWS (US) <Kayla.M.Patten@usace.army.mil>; Rule, Rebecca A CIV USARMY CENWS (US) <Rebecca.A.Rule@usace.army.mil>

Subject: RE: How are you doing with East Waterway NRRB comments?

Hi Ravi,

I guess I would start with the text from the Scott Pruitt memo that is below. Let me know if you need something that is more "narrative" - without the bullets.

I've also attached the memo in case you want a bit more of the text that is around this description.

Bill

Key elements of the Region's preferred alternative are described below.

1. Main Channel Area: The preferred alternative consists primarily of sediment dredging in the main channel area. The dredged sediments will be disposed of in an offsite landfill. Dredging removes a significant volume of contaminants, achieves risk reduction, provides certainty with respect to future protection of the EW, and is compatible with the current and anticipated future uses of the EW. In the limited areas where full dredging is unfeasible, there will be partial dredging and offsite disposal in combination with engineered caps to cover the contamination remaining in these areas.
2. Sill Reach: For contaminated sediments in the shallow sill reach at the south end of the EW, there will be a 9-inch enhanced natural recovery (ENR) sand/gravel layer placed over these sediments, because overwater structures present an impediment to dredging. This area is not used for navigation, reducing the likelihood of a future disturbance to the ENR layer.
3. Under-Pier Areas: Because piers provide an obstruction to dredging, in-situ treatment (most likely with activated carbon) will be used to treat sediments.
4. Institutional controls will likely be in the form of seafood consumption advisories, and restrictions on activities which may otherwise disturb the protective caps and ENR layers.

In keeping with State of Washington law, the Region's preferred alternative addresses all sediments with PCB concentrations greater than 12 mg/kg organic carbon (OC). Approximately 100 acres of the EW will be dredged, 7 acres will be partially dredged and capped, 1 acre will receive an ENR layer, and 12 acres will receive in-situ treatment followed by an ENR layer. The total dredging volume is estimated at 960,000 cubic yards, with a total cost for the Region's preferred alternative of approximately \$290,000,000. The distribution of costs is as follows:

Preconstruction/Planning/Mobilization	10%
Sediment Removal	9%
Sediment Disposal	34%
Under-pier AC/ENR/Sand Cover Layers	6%
Contingency and Taxes	35%
Post Construction/Long-term Monitoring	6%

-----Original Message-----

From: Sanga, Ravi [<mailto:Sanga.Ravi@epa.gov>]

Sent: Thursday, May 03, 2018 12:23 PM

To: Gardiner, William W CIV USARMY CENWS (US) <William.W.Gardiner@usace.army.mil>

Subject: [Non-DoD Source] FW: How are you doing with East Waterway NRRB comments?

Bill Where would be the best source for this summary? I'm thinking the fact sheet for Chris Lladick. What do you think ?

From: Poore, Christine

Sent: Thursday, May 03, 2018 11:54 AM

To: Sanga, Ravi <Sanga.Ravi@epa.gov>

Cc: Ammon, Doug <Ammon.Doug@epa.gov>; Gustavson, Karl <Gustavson.Karl@epa.gov>; Hiltner, Allison <Hiltner.Allison@epa.gov>; Grandinetti, Cami <Grandinetti.Cami@epa.gov>

Subject: FW: How are you doing with East Waterway NRRB comments?

Hi Ravi,

We're in the process of editing the recommendations. I'm sorry that the FS is getting held up, we're working to get the recommendations finalized.

Can you please provide a short (2-3 paragraph) overview of the proposed action? It will be included in the NRRB recommendations.

Thanks!

Christine

From: Gustavson, Karl

Sent: Wednesday, May 02, 2018 7:14 AM

To: Poore, Christine <Poore.Christine@epa.gov <<mailto:Poore.Christine@epa.gov>> >

Subject: FW: How are you doing with East Waterway NRRB comments?

From: Sanga, Ravi

Sent: Tuesday, May 01, 2018 6:57 PM

To: Hiltner, Allison <Hiltner.Allison@epa.gov <<mailto:Hiltner.Allison@epa.gov>> >; Ammon, Doug <Ammon.Doug@epa.gov <<mailto:Ammon.Doug@epa.gov>> >; Gustavson, Karl <Gustavson.Karl@epa.gov <<mailto:Gustavson.Karl@epa.gov>> >

Cc: Blocker, Shawn <Blocker.Shawn@epa.gov <<mailto:Blocker.Shawn@epa.gov>> >; Grandinetti, Cami <Grandinetti.Cami@epa.gov <<mailto:Grandinetti.Cami@epa.gov>> >

Subject: RE: How are you doing with East Waterway NRRB comments?

Hi Doug From our conversation last week, I was under the impression that I would be seeing NRRB Comments on the EW proposed remedy by now. If I could get them sooner vs later that would be great ! The EW FS approval is being delayed pending comments from the NRRB.

From: Hiltner, Allison

Sent: Tuesday, April 24, 2018 12:11 PM

To: Ammon, Doug <Ammon.Doug@epa.gov <<mailto:Ammon.Doug@epa.gov>> >; Gustavson, Karl <Gustavson.Karl@epa.gov <<mailto:Gustavson.Karl@epa.gov>> >

Cc: Sanga, Ravi <Sanga.Ravi@epa.gov <<mailto:Sanga.Ravi@epa.gov>> >; Blocker, Shawn <Blocker.Shawn@epa.gov <<mailto:Blocker.Shawn@epa.gov>> >; Grandinetti, Cami <Grandinetti.Cami@epa.gov <<mailto:Grandinetti.Cami@epa.gov>> >

Subject: How are you doing with East Waterway NRRB comments?

Hi Doug and Karl -

It's been a month since the East Waterway NRRB/CSTAG meeting and I wondered how things are going with the East Waterway comments. Ravi was hoping to get NRRB comments soon because he needs to know if there's anything that needs to be put in the FS or a Supplemental Tech Memo to address the comments. He's otherwise ready to finalize the FS so this getting to the point of affecting the site schedule. Can you provide us with an ETA?

Allison Hiltner

Policy Advisor

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